

WHAT IS CLAIMED IS:

1. A studless tire having a tread comprising diene rubber and non-metal short fiber which is surface-treated in advance and dispersed in said diene rubber so as to be oriented in the tread thickness direction, wherein when measured at 25°C, said tread has a ratio of complex elastic modulus E1 in the tread thickness direction and complex elastic modulus E2 in the tire circumferential direction of

10 $1.1 \leq E1/E2 \leq 4$

and a tread rubber hardness measured at -10°C of 45 to 75 degrees.

2. The studless tire of Claim 1, wherein said non-metal short fiber has an average fiber diameter of 1 to 100 µm and average length of 0.1 to 5 mm.

3. The studless tire of Claim 1, wherein said non-metal short fiber is glass fiber.

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4. The studless tire of Claim 2, wherein said non-metal short fiber is glass fiber.

5. The studless tire of Claim 1, wherein said non-metal short fiber is surface treated in advance by a surface treating agent comprising silane containing sulfur or resorcinol-formaldehyde-latex.

6. The studless tire of Claim 2, wherein said non-metal short fiber is surface treated in advance by a surface treating agent comprising silane containing sulfur or resorcinol-formaldehyde-latex.

5 7. The studless tire of Claim 3, wherein said non-metal short fiber is surface treated in advance by a surface treating agent comprising silane containing sulfur or resorcinol-formaldehyde-latex.

10 8. The studless tire of Claim 4, wherein said non-metal short fiber is surface treated in advance by a surface treating agent comprising silane containing sulfur or resorcinol-formaldehyde-latex.